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(54) **BAR MAGNET**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a bar magnet which has a center axis deviating less from the magnetic axis and is sufficiently high in detection accuracy, when it is used for position detector.

SOLUTION: A bar member 7A of permanent magnet material is magnetized into a bar magnet 7B, then the bar magnet 7B is divided along its center into two bar magnets 7L and 7R, the bar magnets 7L and 7R are rearranged in such a manner that the magnet 7L is positioned on a right side. The magnet 7R is positioned on a left side respectively, and the magnets 7L and 7R are bonded together into a bar magnet 7 to make their initial edge faces EL and ER confront each other. The bar magnet 7B has a curved magnet axis M, so that the magnet axis M is separated apart by a large distance from the center line C of the bar magnet at the edge face, but the magnet axis M is separated less from the center line C in the bar magnet 7. Accordingly, a magnetic field around a magnet is improved in symmetrical properties, so that measurement errors can be reduced, when a magnet of this constitution is applied to a position detector.

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